Nepal College of Information Technology

**Unit Test**

Fall 2011

Program : BE ELX/CE/IT Time : 2 hrs

Semester : Fall (I) FM : 70

Subject : Programming in C PM : 35

* *Candidates are requested to give their answer as far as practicable in their own words.*
* *The figure in the margin indicates the full marks*
* ***Attempt ALL question***

1. a) Explain different generations of computer. Briefly distinguish high level language from low level language. 8

b) What are algorithm and flow charts? Draw a flow chart which prints the highest of three numbers. 7

2. a) What is an operator? List and briefly describe different types of operators used in C programming language. 8

b) What is an identifier? Specify the rules for defining it. Determine which of the following are valid identifiers if not specify the reason. 7

(i) Array (ii) for (iii) l\_name (iv) name and address

3. a) Write a menu driven program to perform following tasks according to the user input. 8

M E N U

i) To print the numbers in series (1 2 3 4 5 6…)

ii) To find the number is odd or even.

1. To print cube of a number.
2. To print “thank you for using my program” message.

b) Write the complete program which will generate the following output. 4

0 2 3 4 5

1 0 3 4 5

1 2 0 4 5

1 2 3 0 5

1 2 3 4 0

c) What will be the output after the execution of the following code? 3

void main ( )

{

int i;

for ( i=1; i<5; i++ )

printf (“%d\n”,i+1);

for ( ; i<=50 ; )

{

if (i%5==0)

i=i+5;

else

i++;

printf(“\n %d”,i);

}

}

4. a) What is a function? What are the benefits of using them? Write a program using function (any type) to generate the Fibonacci Series (1, 1, 2, 3, 5, 8, 13…….) up to nth terms. 8

b) If A=17, B= 6 & C =2 what will be the final values of A, B & C after the execution of following statements. 7

B = --B + ++A – C --

A = ++A + A++ + ++B

C= A++ + B-- + ++C

5. Write short notes on (any two) 2\*5=10

a) while and do-while loop

b) Constants and variable

c) Program Documentation